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The Patent Office  
Concept House  
Cardiff Road  
Newport

South Wales  
NP10 8QQ 21 NOV 2000

WIPO PCT

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12 OCT 1999

Patent  
Office

12 OCT 1999 E483128-1 C56247  
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# Request for grant of a patent

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)

The Patent Office

Cardiff Road  
Newport  
Gwent NP9 1RH

1. Your reference

STEPHEN MURTEW

2. Patent application number

(The Patent Office will fill in this part)

9923976.6

3. Full name, address and postcode of the or of each applicant (underline all surnames)

STEPHEN MURTEW THE CYMGES OF  
OLD YORK ROAD SKELDON DONCASTER S/YORKS  
DN6 8LA.

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

7759152001

4. Title of the invention

ADJUSTABLE SAFETY CABLE

5. Name of your agent (if you have one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

N/A

ATKINSON BERRINGTON  
27-29 PRESIDENT BUILDING  
PRESIDENT WAY  
SHEFFIELD (S1 44)  
S4 7UR (29RPO)

Patents ADP number (if you know it)

7807043001

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number  
(if you know it)

Date of filing  
(day / month / year)

N/A

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing  
(day / month / year)

N/A

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

NO

a) any applicant named in part 3 is not an inventor, or

b) there is an inventor who is not named as an applicant, or

c) any named applicant is a corporate body.

See note (d))

9. Enter the number of sheets for any of the following items you are filing with this form. Do not count copies of the same document

Continuation sheets of this form

Description 2

Claim(s) 1

Abstract 1

Drawing(s) 1 + 1

10. If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77)

Request for preliminary examination and search (Patents Form 9/77)

Request for substantive examination (Patents Form 10/77)

Any other documents (please specify)

11.

I/We request the grant of a patent on the basis of this application

Signature

S. Morten

Date

12/10/

12. Name and daytime telephone number of person to contact in the United Kingdom

STEPHEN MORTEN

01302 722438

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## ADJUSTABLE SAFETY CABLE

This invention relates to a adjustable safety cable.

Safety cables are used throughout the building, leisure and petro chemical industries, for clipping onto, to give protection against falls.

However to give temporary access to the building and petro chemical industries, safety cables are used simply by fastening both ends to the solid structure.

This however is not suitable for scaffolding, as no solid structure has been built prior to requiring the safety cable. Thus the need for an adjustable safety cable.

According to the present invention there is provided an adjustable safety cable comprising of an adjustable cable. Two or more hollow adjustable uprights, each upright comprises of one or more hollow lengths of material that can be displaced one inside the other. Thus allowing the uprights to be expanded or contracted.

The safety cable travels up from the lower part of the upright, to a predetermined height where it crosses the required distance and comes into contact with the second upright set at the same predetermined height. The cable can be fastened at contact point or allowed to travel to the lower part of the upright.

The uprights are expanded and contracted using cables and pulleys. The uprights are supported to any structure using base and intermediate brackets fitted with or without locking devices.

A specific embodiment of the invention will now be described by way of example with reference to the accompanying drawing in which:-

Figure 1 shows both uprights joined together by the adjustable safety cable.

Referring to the drawing the adjustable safety cable comprises a pair of base sections 11 and a pair of upper sections 12. The upper sections can be displaced inside the base sections 11 to form "a" adjustable upright 20. A cable 19 is taken from the base of one upright 20 travels over pulleys 13 to the base of the second upright 20. The cable is secured to the base 11 by, for example a catch, keep or winch (not shown). The safety cable 19 can be secured at contact point 24 if required.

In order to install the uprights 20, for example to a structure (not shown), both uprights 20 are placed at the required distance apart. They are offered base support bracket and clamps 15 first, to a fastening position on a structure (not shown). Intermediate supports 14 are then fitted. Thus securing both uprights 20 to the structure. Both ends of the adjustable safety cable 19 are secured.

In order to raise the uprights 20 in the direction of the arrow 21 or lower in the direction of the arrow 22, positive only or positive then negative pressure is applied to rope 16. Thus lifting or lowering the upper section 12 support pin 23 along the guide vain 17.

To secure the upper section 12 at the required height, for example, pins, clamps or similar means (not shown) are used.

To remove the uprights 20 from the structure the steps described above are carried out in reverse sequence.

## CLAIMS

1 A adjustable safety cable comprising of "a" adjustable cable. Two or more hollow adjustable uprights, each upright comprises of one or more hollow lengths of material that can be displaced one inside the other. Thus allowing the uprights to be expanded or contracted.

The safety cable travels up from the lower part of the upright, to a predetermined height where it crosses a required distance and comes into contact with the second upright set at the same predetermined height. The cable can be fastened at contact point or allowed to travel to the lower part of the upright.

The uprights are expanded and contracted using cables and pulleys. The uprights are supported to any structure using base and intermediate brackets fitted with or without locking devices.

2 A adjustable safety cable as claimed in Claim 1 wherein strengthening means are provided inside the hollow sections.

3 A adjustable safety cable as claimed in Claim 1 or Claim 2, wherein the base and intermediate brackets are removable.

4 A adjustable safety cable as claimed in Claim 1 or Claim 2 or Claim 3 wherein a winch or brackets are used to fasten the safety cable to.

5 A adjustable safety cable as claimed in Claim 1 or Claim 2 or Claim 3 or Claim 4 wherein lanyards are connected to the safety cable so men can clip to.

6 A adjustable safety cable substantially as described herein with reference to figure 1 of the accompanying drawing

## ABSTRACT

### ADJUSTABLE SAFETY CABLE

"A" adjustable safety cable, eg a cable that can be adjusted in length as well as height has a cable 19 that passes over two or more adjustable uprights 20 & down towards the base 11 to be made secure.

The uprights 20 are expanded and contracted by a rope and pulley mechanism. The uprights 20 are placed around the work area with the cable passing between them. Base support bracket with clamp 15 and intermediate supports with clams 14 are fitted to enable installations to structures



